



Air Force Mission Assurance Through Energy Assurance

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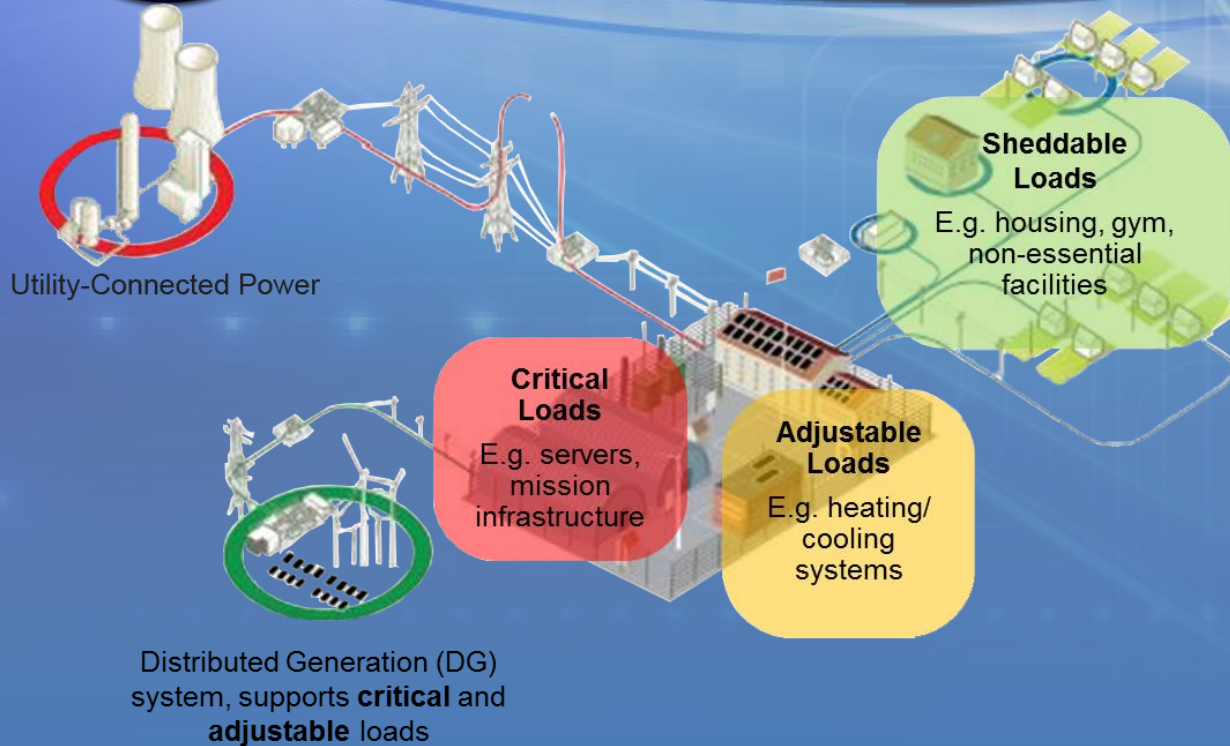


Energy is fundamental to every aspect of our globally networked Air Force





By aligning and focusing existing authorities and resources, we will provide new architectures for Air Force installations



DG Value Stream

- Power purchase agreement sales
- Ancillary services
- Capacity market auctions
- Potential resiliency payments from microgrid participants
- Demand response
- Capital cost incentives/grants
- **Secure, reliable power to mission-critical infrastructure**

Image Source: S&C Electric Company

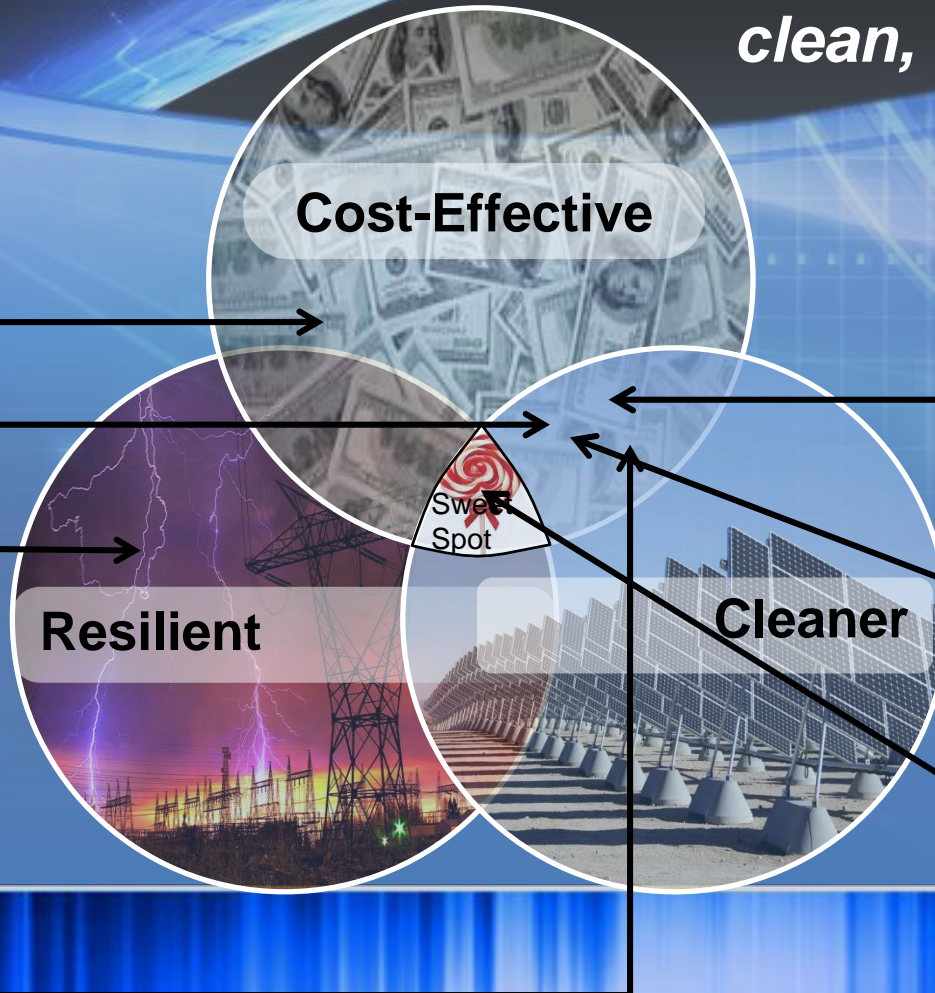




We must shift from a fragmented approach, to a holistic approach to achieve affordable, clean, resilient power

20th Century Approach
has been fragmented:
(examples only, not exhaustive)

- Utility rate negotiations
- Energy efficiency
- Diesel generators + dual grid feeds
- Renewable energy EULs with or without offtake agreement (no ability to “island”)



21st Century Approach
will be more inclusive:
(examples only, not exhaustive)

•20th Century Approach

- +**
- Utility-scale renewable PPAs
 - Onsite renewables with PPAs and smart controlled “island” capability
 - Agile, multi-fuel, integrated smart microgrids





Three lines of effort will characterize our work to enhance energy assurance

Assess Vulnerabilities

Mission Decomposition Analysis

Identifies mission dependencies on energy infrastructure across geographic areas



Scale Readiness

Air Force Office of Energy Assurance

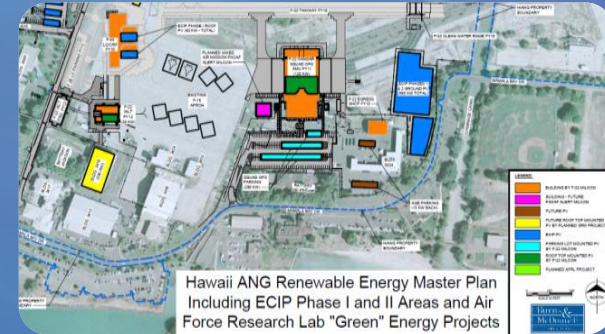
Enterprise Approach to Energy Planning and Execution



Modernize Resiliency

Resilient Energy Demonstration Initiative (REDI)

Creates energy toolkit for critical missions and infrastructure



Outcome: Strategic Energy Agility for Air Force Missions and Installations





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